

POTOMAC VALLEY RADIO CLUB NEWSLETTER - FEBRUARY 1999

PVRC CALENDAR

Weekly Wed BWI Regional weekly breakfast. Wednesdays 7:30 am,
Basil's Deli, Elkridge Landing Rd near BWI.

Feb 1 Mon South MD at Wayne Rogers, N1WR, Lusby, MD, 7:30 pm

Feb 4 Thu PVRC/NC, Ryan's Family Steakhouse at Crossroads, Cary at 6pm

Feb 8 Mon Central meeting, Church of the nativity, Rte 5, Temple Hills

Feb 16 Tue Northwest meeting, Tully's Grill, 1080 W. Patrick St,
Frederick, MD at 7:30 pm Speaker: Riley Hollingsworth,
K4ZDH, advisor to FCC's Compliance & Info Buro

Feb 16 Tue Normal Tidewater Colony meeting with VA-DXCC.
See reference page.

Feb 20/21 ARRL CW DX Contest. 5Mil award.
Pse work all SIX! DXpeditions!

Feb 26 Fri SWVA Chapter Meeting, Steak & Ale Restr, Rt419,
Roanoke. Dinner 6:00pm

Feb 27/28 CQWW 160m SSB Contest. 5 Mil award.

Mar 6/7 ARRL SSB DX Contest. 5Mil award.

EDITORIAL by Dick Wilder, K3DI

The word Service in "Postal Service" is a misnomer. A Postal Service they are not.

The January issue was bulk mailed at 2:35pm on January 6th at Arnold, MD. As I write on January 20th, responses from members seems to indicate that one tray was entered into distribution around the 12th and the second around the 19th. I've discussed this with the Postmaster at Arnold and he said that they ship the trays to Baltimore for distribution and no record is kept for bulk mail. Also, he said, the rush of first class mail prior to the postage increase may have held our bulk mail out of the system. (One piece of good news is that the rate increase this month did not alter our 18.3c/issue rate.) As we continue to use bulk mail, I hope that we will find that this poor USPS performance is an isolated glitch.

At this point, I am concerned about lost mail so please let me know if you didn't receive the January issue. (To jog your memory, it contained the complete CQ 160m rules and three pages with three columns of scores.)

You are reminded that the Newsletter can be obtained via Internet. You can read the current and archived issues on www.pvrc.org. Or, you can request the Newsletter to be sent to you every month by Email by sending a request to [\[email protected\]](#). Subscribing to the email edition will not stop our sending you the paper edition.

I will be adjusting the Newsletter deadline somewhat depending on the printer turn-around, chapter meeting schedules, and my humble schedule. The deadline for the March issue is February 23rd, the day I return from the Caribbean.

DONATIONS REPORT by Dave Baugher, WR3L, Treas ([\[email protected\]](#))

The club would like to thank W3YOZ, JH1NBN/K3ZB, W4DM, K4UX, K3ZO, K4BAM, W7YS, and KC3D for the January donations.

CENTRAL MEETING MINUTES, JANUARY 11, 1999 by Rich Boyd, KE3Q, Secretary

The regular (second Monday) central meeting was held at Temple Hills, Maryland on January 11th. Before the meeting, ten met for dinner at Topolino's. Fifteen, attended the meeting (in order of sign in) were K3MM, WR3L, N3YHC, W0CN, W7CAV, W3LPL, W3AZ, W3TOM, WK3I, K3ZO, W4CE, W3DQ, KE3Q, N3OC, and N3NT.

N3NT had PVRC QSL card orders to distribute. There was a discussion of recent contests and upcoming contests. W3LPL informed us that W9JA (ex-KS9K), a prominent multi-multi station owner from Racine, Wisconsin, has bought a 130 acre farm on Virginia's northern neck and is relocating to our area, eager to be a PVRCer. A serious contest station is planned and Paul is expected to be looking for operators. Good news!

K3MM, K3RA, and a third op plan to be on for ARRL DX CW from Antigua (V2). KE3Q will be single op at WP3R in ARRL CW. W4CE, W4NF, and W4RM plan a VP2V DXpedition for ARRL phone.

KE3Q led a discussion of large station antenna farm design, using his new 14-acre QTH as the case in point.

PVRC/NC MEETING MINUTES, 1/7/99 by Pete Soper, KS4XG ([\[email protected\]](#))

Site: The meeting was held at Ryans at Cary Crossroads from 18:00-19:30

Attendees: AA4NC Will, K4HA Bob, K4MA Jim (chairman), K4QPL Jim, K7GM Rick, KS4XG Pete (secretary), N4CW Bert, N4TL Tom, NT4D Jay, NX9T Jeff, and WJ9B Will (first meeting)

Membership: Due to an oversight we failed to vote WX4DX George Beasley into PVRC during his second meeting last month. A vote was held and George was unanimously accepted into PVRC. Welcome to PVRC George!

This was the first meeting of WJ9B Will Baber. Will lives in Greensboro where he is an avid low power contester frequently posting competitive NC scores. Will recently put up a 40m yagi and tribander on a 70' tower and we look forward to his second meeting and entry into PVRC. Welcome Will! Chapter membership is now 28.

Club business and announcements: K4MA awarded the ARRL SS club competition 1st place gavel to AA4NC on behalf of PVRC for the highest combined SS score total submitted toward the team competition during the '97 effort. K4MA won the club gavel for highest score submitted toward the '97 PVRC team win in the ARRL 10 meter contest.

The first PVRC 5 Million award plaque for an NC chapter member was given to AA4NC by Jim. Will said he wouldn't have worked so hard on it if he'd known we don't have to get the five million points in a single year! K4MA also earned a PVRC 5 Million award plaque. Congratulations Jim and Will for leading the way.

Information about the PVRC 5 million club award can be obtained here:

<http://www.pvrc.org/5mildc98.doc> (Microsoft Word format). Note that to be counted toward the 5 mil award you must submit your scores to W2GG at [\[email protected\]](#) (in addition to sending to ARRL or CQ of course). It was believed that a public posting of your summary to [\[email protected\]](#) should also be sufficient as Bob monitors the reflector (but make the subject line obvious like "KS4XG CQ160/SSB SOLP Result"). The latest totals for the awards can be found here: <http://jctc.org/pvrc5m.htm>.

Upcoming Contests: CQWW 160/CW 1/29, French REF/CW 1/30, and Belgian UBA/SSB 1/30

Member activities: The N4CW home tower project continues with all anchor and base holes dug. Bert has gone back to work to save for a new rotator and may be ready for a tower party when the weather warms up.

K4QPL has 70' of Rohn 25G in hand and is working out the exact placement of the base and guy anchors. K4QPL organized a chapter team for the upcoming NAQP/CW test.

NT4D commented that the recent ice storm caused the elements of his KT34XA to droop badly but those of his 4 element M2 40m yagi didn't bend at all.

Next Meeting: The next PVRC/NC meeting will be 1800 Thursday February 4th at Ryans.

SOUTHERN MARYLAND REGIONAL MEETING MINUTES, 4 January 1998 by Barry Shapiro, WR3Z, [\[email protected\]](#)

Site: Home of N1WR, Wayne Rogers, on 4 January 1999 at 7:30 PM.

Attendees: WR3Z, Barry; N1WR, Wayne.

Agenda: Attention was again directed toward an outreach effort for recruiting additional members for PVRC from the region. Several potential recruits were noted, which included hams who were both active in HF and VHF/UHF activity. Attempts will be made to increase interest as well as activity during several of the upcoming club competition contests (Jan VHF and ARRL DX CW/SSB). Other ways to attract more interest in attending meetings were discussed (i.e. ARRL/PVRC videotapes, expeditions etc).

Other discussion topics included recent and upcoming contest activities. This mainly covered the recent 160M and 10M contests, which N1WR operated in both and reported scores for PVRC. WR3Z missed both contests due to his vacation to Hawaii. On that trip, Barry got a tour by his brother Rob (ND3A) of the multi-multi station KH7R on Oahu's North Shore. Barry also had the opportunity to meet Ken along with Kino (KH7U) and two other KH7R ops.

The next meeting will be scheduled for Monday February 1st.

NW REGIONAL MEETING MINUTES - Jan 19, 1999 By Greg Altig, N5OKR ([\[email protected\]](#))

In attendance were members N5OKR, W3ZZ, K3SX, K8OQL, W3EKT, K3MQH, K3TZV, NE3H, K3MM, W9LT, K3DNE, N8II, WD3A, and W6NRJ.

Business: There was no formal business meeting conducted.

From the introductions: W3ZZ, Gene, reported that WI2T will op from his place this weekend. K3DNE, Ed, was part of the K3VOA crew handing out the DC mult in the ARRL 10M contest. He now has all VHF bands up to 1296MHz and will op from home this weekend.

WD3A, Tom, has been trying the WRITELOG program at home since the 10M contest with success. He reports it is supposed to do RTTY also, but with his recent luck with that mode (see Oct minutes), he's been a little reluctant to try it.

N8II, Jeff, reports 1240 Qs in only 15 hours of CW only operation in the ARRL 10M contest. Sounds like the band is back to me.

K3SX, Sid, reports bagging 4 new ones on 160M since the 27th of December, bringing his total on that band to 184. He will be teaming with W4XP from home this weekend in a limited multi effort.

NE3H, Joe, took part in the RTTY Roundup and logged 900+ Qs despite some software problems. He is now playing with the big boys on 144 and 432MHz with over 100 watts on each band, so will be participating this weekend.

K3TZV, Steve, talked about a moisture problem he is having with his Tail Twister electrical connections and received a lot of good input toward solving the dilemma.

K8OQL, Jerry, is having fun chasing the ZL9 Dxpediton group and will be on from home in the CQWW 160M contest. He won the club gavel for his 1997 160 effort. Congrats, Jerry!

W3EKT, Ed, will be part of the K3MQH super multi crew this week-end.

K3MQH, Dick, was at WF3T for the ARRL 10M contest and enjoyed playing with the stacked antennas. He and his crew are ready to go full bore this weekend after escaping relatively unscathed from last week's ice storm.

K3MM, Tyler, will be at V260 for the ARRL DX CW contest next month that should net big points for the club. This will probably be his last Dxpediton for a while as he and Laurie are expecting a baby girl in June. Way to go Ty! He also talked about some new (and free) RTTY software that allows PSK/QPSK operation that reportedly is very good at maintaining communications in marginal conditions.

W9LT, Lamar, will be moving to Indiana soon and reports his house, 5 acres, and antenna farm are for sale. His place is located right on he WV side of the VA/WV state line, mile from I-81. No restrictions! Meeting adjourned.

On January 21st, Greg announced that the guest speaker at the February 16th meeting will be Riley Hollingsworth, K4ZDH, the legal advisor for amateur enforcement within the FCC's Compliance and Information Bureau. Riley gained notoriety when he jumped into the middle of a fracas on 75 meters (see ARLB004) to try and calm the waters. -editor

SOUTHWEST VA MEETING MINUTES 1/22/99 by Michael Barts N4GU ([\[email protected\]](#))

The monthly meeting of the SWVA PVRC chapter was held at Shoney's Restaurant in west Salem January 22. In attendance were members K1GG, N4EL, K4IQ, KU4RG, N4GU, K1SO, and guests KA4BSA and KC9LC.

After dinner, K4IQ chaired the formal meeting and welcomed visitors KA4BSA and KC9LC.

Emily, KA4BSA, is the XYL of Nat, N4EL, and is very active in Boy Scouts (hence the call). She has promoted amateur radio through her scouting activities with operations such as JOTA and organizing local amateurs to provide communications in support of scout hikes.

Randy, KC9LC, lives in Christiansburg, VA (not far from K3GX and N4GU) and enjoys DXing and operating Sweepstakes and the NAQPs among other contests. This was Randy's first meeting.

There was a discussion about the SSB NAQP last weekend. K4IQ, K1GG, KU4RG, K4EP, and N4GU operated as the Southwest Virginia Contest Conspiracy (all PVRC) and scored over 500K points as a team. N4EL, K1SO, and KC9LC also participated part time. K1GG raised the bar by setting a new all-time Virginia NAQP SSB record for the second year in a row. Among the comments were that there was a noticeable lack of PFI (pig-farmer interference) during this contest. It is hoped that it will be a continuing trend.

K4IQ and N4GU discussed their participation in the Stew Perry Distance Challenge but details were few (who remembers that far back?).

Discussion of upcoming contests included the CQWW 160m CW contest. K4IQ intends to be active. K1GG is still trying to get his Beverage working but may get on.

There was a reminder that the ARRL DX contest next month counts for the PVRC 5 Million Award and many expressed intentions to be active.

There was a short discussion of plans for Dayton this year. Those with reservations are all sitting pretty, those without need to get on the ball. The Southwest Virginia chapter will be well represented at Dayton this year.

It was decided by mutual consent that the next meeting will be February 26 at the Steak and Ale Restaurant on RT419 in Roanoke, dinner at 6:00 followed by the formal meeting. With the formal agenda completed we enjoyed a boisterous chat session before adjourning at 8:30.

PVRC DXpeditions by editor

I maintain a list of PVRC DXpeditions and publishing it on packet, the reflector, and the Newsletter. Please send me (adr on reference page) corrections and additions. Following the below list there are details for a few of our DXpeditons.

ARRL CW

V260 M2 by K3RA, K3MM, & non-PVRC N5NJ
NP2S SO LP by K3DI
KG4DZ M2 by W4SD, NW3K, & W4ZYT
WP3R SO by KE3Q

8P9JA MS by AA4NC & K4MA
TI7/N4MO by N4MO

ARRL 'phone
HK0/San Andres.
Woodbridge Wireless includes K5OF & AA3KX
VP2V M2 by W4NF, W4RM, W4CE, and W4DAV
8P9Z M/S by K3KG (share of score)
TI7/N4MO by N4MO

CQ WPX Phone:
TI7/N4MO by N4MO

KG4DZ will be operated by OB (W4SD), Chuck (NW3K), and Don (W4ZYT) once again the ARRL CW. They will be active 16-22 Feb using the calls of KG4ZK(W4ZYT), KG4SD(W4SD), and KG4NW(NW3K) outside of the contest. QSL via home calls; KG4DZ via W4SD. They will be happy to take sked requests via e-mail before they depart, and are already planning on some 160 meter activity (try 0300 UTC) by request.

NP2S on St. Croix operated by K3DI in the ARRL CW contest. If permitted by the licensee, NP2S will also be used outside the contest; otherwise K3DI/KP2. The plan is SO LP using 10-40 meters with a R-7000 antenna. PVRC gets the score.

VP2V will be operated by Jack (W4NF), Cliff (W4CE), Bill (W4RM), and Dave (W4DAV) during the ARRL Phone DX contest as a M/2. They have their place reserved and it is about 200' ASL with a clear shot to the states. The house is on the hill above Smugglers Cove on Tortola. In fact it is right above W0DX's place but he won't be operating. Jack messaged, "We have one A3 and are looking for another tribander for the second radio. If anyone has one we can borrow we would appreciate it. If we have to cut the boom or elements to fit baggage restrictions we will replace those aluminum parts before we return it." PVRC gets all of the score.

The NCDXF/IARU Beacon Network
edited by Dick Wilder, K3DI. Part 1 of 2.
(Most of the text is from www.ncdxf.org.)

The NCDXF, in cooperation with the IARU, maintains a network of beacon stations which operate sequentially on five bands. The 10 dB power steps are precise and are useful for "S" meter calibration and for judging band conditions. The entire system was designed and built by Foundation volunteers at no cost except for the actual price of hardware components.

The beacon network can help all operations from the big multi-multi to the little single operator unassisted stations. With software from internet, you don't need an operator to copy CW or even listen to the beacon system from which you can monitor band openings and propagation paths opening to new multipliers.

The following is the frequency and time table all of the NCDXF/IARU beacon stations. Some sites may be off or some sites may not jump to all five frequencies so it would be well to check with the NCDXF web site.

MHz 14.10 18.11 21.15 24.93 28.20

4U1UN	00:00	00:10	00:20	00:30	00:40
VE8AT	00:10	00:20	00:30	00:40	00:50
W6WX	00:20	00:30	00:40	00:50	01:00
KH6WO	00:30	00:40	00:50	01:00	01:10
ZL6B	00:40	00:50	01:00	01:10	01:20
VK6RBP	00:50	01:00	01:10	01:20	01:30
JA2IGY	01:00	01:10	01:20	01:30	01:40
RR9O	01:10	01:20	01:30	01:40	01:50
VR2B	01:20	01:30	01:40	01:50	02:00
4S7B	01:30	01:40	01:50	02:00	02:10
ZS6DN	01:40	01:50	02:00	02:10	02:20
5Z4B	01:50	02:00	02:10	02:20	02:30
4X6TU	02:00	02:10	02:20	02:30	02:40
OH2B	02:10	02:20	02:30	02:40	02:50
CS3B	02:20	02:30	02:40	02:50	00:00
LU4AA	02:30	02:40	02:50	00:00	00:10
OA4B	02:40	02:50	00:00	00:10	00:20
YV5B	02:50	00:00	00:10	00:20	00:30

This table gives the minute and second within each hour of the start of the first transmission of each of beacon on each frequency. Each transmission is repeated every three minutes. A transmission consists of the callsign of the beacon sent at 22 words per minute followed by four one-second dashes. The callsign and the first dash are sent at 100 watts. The remaining dashes are sent at 10 watts, 1 watt and 0.1 watts.

Equipment used at each beacon site includes a Kenwood TS-50S transmitter, a Cushcraft R-5 vertical antenna, a Trimble Navigation Acutime (TM) GPS receiver (recently updated and renamed the Palasade (TM)) and a controller built by the NCDXF. For more information, see The NCDXF/IARU International Beacon Network by John G. Troster and Robert S. Fabry, QST, October 1994 pp. 31-33 and November 1994 pp. 49-51, The NCDXF/IARU International Beacon Project by John G. Troster and Robert S. Fabry, QST, September 1997 pp. 47-48, or contact the Northern California DX Foundation, P.O. Box 1328, Los Altos, CA 94023-1328, USA. Three articles are now available online at the IARU web site at <http://www.iaru.org/articles/>. These articles have a lot of interesting details about the beacons.

Part two of this article will be in the March Newsletter. It will be a software review written by Bob Fabry, N6EK and published at www.ncdxf.org/beacon/.

NOTES FROM THE EDITOR, K3DI:

ARRL Vice President Hugh Turnbull W3ABC, age 82, was taken ill on Christmas Day and has been in the hospital since then. Hugh is a PVRC member, past director of the Atlantic Division, and director of the FAR scholarships. Ben Shaver, AA4XU, spoke to Hugh on January 18th and passes on that Hugh "... is a patient in the Bethesda Naval Hospital after having gall bladder surgery. He is doing well, but will be in the hospital for a while longer, then have more surgery. He is not able to receive telephone calls at this time, but he would welcome inquiries and messages through his wife at 1-301-927-1797. He said to please give his wife your call when you inquire. He apparently can call out, but there is difficulty getting incoming calls." Hugh's home address is 6903 Rhode Island Ave, College Park, MD 20740.

Glenn Tracey, KC3EK lets us know that he has a Web Page that was created by Chris Kahn, also known as "xrayecho" at [\[email protected\]](#). The page is at www.qsl.net/kc3ek/. Glenn reports that he's beginning to feel better and a little stronger each day. Still can't buckle a belt though due to the incision healing.

I received a note from Eric Rosenberg, W3DQ that the in-flight magazine of the Sabena/Nationwide Airlines in South Africa carried an article titled "Radio Gagga." The article was the one that has been on internet (though units converted to metric) that describes the comedy of errors of a radio amateur who is doing tower work.

From Feb 6- 16 I will work some 10 and 15 meters from XE, HP, HK, TI, and P4 if permitted to do so under the CITEL or CEPT agreements using either my US or British calls. While at sea, the cruise line has given me permission to operate as M0BOA/MM. QSL requests from this operation or NP2S in the ARRL CW sent via email or packet will be confirmed via the bureau.

Ron Uthus, N4MO ([\[email protected\]](#)) and his wife are off to South and Central America for the winter. He didn't start early enough to get a license while on Margarita Isl (YV7) but will be holding forth from TI7/N4MO for both ARRL DX tests and the CQWW WPX PH test. The rig will be 80 watts and wires. Ron says that one of these days he'll give up on wires and take a beam down. He will be on 15 SB and all is contingent on no deterioration of a couple of family members who are having some problems. He was scheduled to leave on January 20th and return on March 31st.

Andy Anderson, W3XE, [\[email protected\]](#), is in Chula Vista, CA heading for Harlingen, TX where he will be for two months. He says he's sorry he missed our recent ice story and will not return home until the Dogwood Trees start to bloom. If you check in on the County Hunters Net (CHN) on 14056.5 or 7039 kHz Andy will either be there running counties or someone there will know where he is.

S C O R E S

by Bob Dannals, W2GG

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Changes/additions/deletions
to [\[email protected\]](#) or packet

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BE SURE TO SEND YOUR

SCORES TO ARRL OR CQ!

= missing information

ARRL CW SS (#13 1/21/99) FINAL

CALL	PWR	QSO	SEC	TOTAL
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** SINGLE OP				
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K3MM	B	1306	79	206,348
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N4AF	B	1305	79	205,874
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W4MR	B	1276	79	201,608
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W3PP	B	1245	79	196,710
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KT3Y	B	1220	77	187,880
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K3ZO	B	1196	78	186,576
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N4ZR	B	1138	78	177,528
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N8II	A	1021	78	159,276
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N4CW	B	996	78	155,376
K1HTV	A	947	79	149,626
K3SV	B	930	79	146,940
K4MA	A	885	79	139,830
W4YE	A	841	79	132,878
W3MC	A	837	79	132,246
K4QPL	A	837	77	128,898
K7GM	A	763	79	120,554
N3NT	A	748	78	116,688
K3KO	B	715	77	110,110
N3AM	B	708	76	107,616
W3HVQ	B	641	79	101,278
W9LT	B	671	75	100,650
N3II	B	635	79	100,330
WR3Z	A	629	78	98,124
K3KY	B	623	78	97,188
N3OC	B	599	78	93,444
KM3V	A	581	78	90,636
W3DA	B	###	79	90,000
K3AN	Q	576	77	88,704
K4IQ	A	575	76	87,400
W3UJ	A	553	79	87,374
N4MO	A	563	72	81,072
W3AZ	B	507	78	79,092
WD3P	Q	539	73	78,694
K2AV	B	464	73	67,744
K3SA	A	450	73	65,700
KU3M	B	394	73	57,524
W3CB	B	382	75	57,300
W4PRO	Q	344	79	54,352
K2UOP	B	364	74	53,872
W3CP	A	337	78	52,572
N4GU	A	355	73	51,830
K4PB	A	334	75	50,100
N1WR	Q	339	70	47,460
AA4KD	A	299	68	40,664
W8ZA	B	255	63	32,130
N3WK	Q	200	63	25,200
NX9T	A	200	60	24,000
K1GG	B	181	66	23,892
W4VC	A	161	73	23,506
WD3A	A	170	62	22,072
ND3F	B	160	57	18,240
N4BTO	A	150	58	17,400
K3TM	A	150	51	15,300
W3DAD	A	141	53	14,946
K4SO	B	129	56	14,448
W2CS	B	134	52	13,936
N3RC	A	104	50	10,400
W3GN	B	36	22	1,584
N3TG	A	13	8	208
N4MM	B	5	5	50

** MULTIOP & SINGLE ASSISTED

W4MYA	B	1153	79	182,174
W4RM	B	1122	79	177,276
NJ4F	B	1031	79	162,898

K4IX/3	B	876	79	138,408
N3RR	B	859	79	135,722
NT4D	B	870	79	137,460
WR3L	B	754	79	119,132
W4ATC	B	727	79	114,866
K3DI	B	718	79	113,444
W4ZYT	B	636	79	100,448
W2GG	A	523	79	82,634
NY3M	A	367	79	57,986
N3HUV	A	200	79	31,600
K3HH	A	222	65	28,860
KT4W	B	100	40	8,000

75 LOGS TOTAL 6,683,886

** SPECIAL OPERATIONS **

WP3R B 1565 79 247,270
by KE3Q

Visiting operators:

AA4NC was operator at W4MR

Multiop operators:

K3DI K3DI packet
K3HH K3HH packet
K4IX/3 K4IX W4HIR
KT4W KT4W packet
N3RR K4VV W6HZW N3RR
NJ4F NJ4F K7SV K4GMH K4EC K3IZ K1SE K4EU Daisy
NT4D NT4D packet
NY3M NY3M Dave Long
W2GG W2GG packet
W4ATC KO4PY NA4G KF4ARS KE4LSU
N3QYE KD4SKW KF4USQ KF4LNQ
W4MYA WA4QDM W4MYA
W4RM W4RM W4NF W4CE
W4ZYT W4ZYT W4SD KC4VZK AF4CD KU4EC
WR3L K3FT N3YHC WR3L

* N4BTO is now N4EL

LAST YEAR - UNLIMITED CATEGORY

	logs	Total CW & SSB
Potomac V R C	154	12,778,736
Northern Ca C C	115	10,923,976
Southern Ca C C	51	6,681,810
Yankee Clip C C	90	6,181,914

ARRL PH SS (#10 1/21/99)

CALL	PWR	QSO	SEC	TOTAL
** SINGLE OP				
K3MM	B	1770	79	279,660
W4MYA	B	1545	79	244,100
K3ZO	B	1557	79	245,690
W3PP	B	1496	79	236,368
K4MA	B	1421	79	224,360

W0CN	B	1400	79	221,200
K4IQ	B	1300	79	205,400
K1HTV	A	1275	79	201,450
N3HBX	B	1212	78	189,072
KE3ZR	B	1001	79	158,158
W4MR	B	1000	79	158,000
K8OQL	B	914	77	140,756*
N4AF	B	875	76	132,848
KB3AUG	B	831	79	131,298
NX9T	B	750	79	118,500
W8ZA	B	726	79	114,708*
W3HVQ	B	713	79	112,654
K3UT	B	706	79	111,548
K3MQH	A	700	79	110,600
W4YE	A	663	79	104,754
N4MO	A	637	79	100,646
KC3TL	B	653	74	96,644
WR3Z	A	608	79	96,064
N1WR	A	617	77	95,018
4U1WB	B	578	78	90,168
K4SO	B	550	79	86,900
K2UOP	B	548	79	86,584
W3ZZ	B	540	78	84,240
KS4XG	B	500	77	77,000
N4GU	A	483	76	73,416
K3IXD	B	452	79	71,416
KU3M	A	402	78	62,712
N3II	B	390	79	61,620
W3UJ	A	410	75	61,500
K4HA	A	363	79	57,354
K3KY	B	340	79	53,720
NV3V	A	344	78	53,664
N4MM	A	337	79	53,246
N4CW	A	350	75	52,500
W3AZ	B	307	79	48,506
K3OSX	B	305	79	48,190
W7CAV	A	301	79	47,558
K3AN	Q	298	78	46,488
N4ZR	B	290	72	41,760
N3UN	A	259	78	40,404
WA4QDM	B	225	78	39,780
W3CB	A	250	75	37,500
K4QPL	A	240	72	34,560
K3KO	B	206	73	30,076
AF4CD	A	188	79	29,704
WD3A	A	207	70	28,980
N8II	B	183	61	22,326
W3IKE	Q	141	66	18,612
W4VC	A	135	68	18,360
N3HUV	A	163	51	16,626
N3TG	A	117	60	14,040
W3JRY	B	105	52	11,130
N3EYB	A	98	49	9,604
N3GPU	A	56	35	3,920
W3AMY	A	40	19	1,520
W3CQH	A	28	26	1,456

** MULTIOP & SINGLE ASSISTED

N3RR	B	1156	79	182,648
WR3L	B	1126	79	177,908
NT4D	B	1027	79	162,266
W4ATC	B	865	77	133,210
K3DI	B	532	79	84,056
K3SV	B	524	79	82,792
K1GG	B	500	79	79,000
N3RC	B	446	79	70,468
N3NT	B	429	79	67,782
N3OC	B	377	79	59,566
W2GG	A	359	79	56,722
N3IQ	B	272	74	40,256
N4RV	B	180	62	23,000

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- - - - -
74 LOGS      PH TOTAL  6,666,310
- - - - -
75 LOGS      CW TOTAL  6,683,886
- - - - -
149 LOGS GRAND TOTAL 13,350,196
- - - - -

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** SPECIAL OPERATIONS **

WP3R	B	2755	79	432,500
		by KE3Q		
VO1AA	A	515	77	79,310
		by W4SD, W4ZYT, VO1HE, VO1MX		

** GUEST OPERATIONS **

W8ZA by K3DNE
W4MR by AA4NC
4U1WB by AJ3M

* K8OQL from W9LT QTH
* K3DNE from W8ZA QTH

Multiop operators:

K1GG	K1GG packet
K3DI	W3ICM K3DI
K3SV	K3SV packet
N3IQ	ND3F N3SLN
N3NT	N3NT packet
N3OC	N3OC packet
N3RC	N3RC packet
N3RR	K4VV W6HZW N3RR
N4RV	N4RV KT4W
NT4D	NT4D packet
W2GG	W2GG packet
W4ATC	N3QYE KF4ARS KE4LSU KO4PY
WR3L	K3FT N3YHC WR3L

LAST YEAR - UNLIMITED CATEGORY

		logs	Total CW & SSB
Potomac V R C	154	12,778,736	
Northern Ca C C	115	10,923,976	
Southern Ca C C	51	6,681,810	

Yankee Clip C C 90 6,181,914

CQWW DX CW (#5 1/12/99)

CALL	BND	QSO	ZON	CTY	TOTAL
SINGLE OP HIGH POWER - UNASSISTED					
K3ZO		3481	154	470	6,336,096
N4AF		3133	142	454	5,366,980
KT3Y		3047	145	448	5,260,000
K0DQ		2868	140	460	4,957,800
W4RX		2400	###	###	4,345,000
W4MR		2288	139	439	3,843,700
N4ZR		2122	129	421	3,389,100
WF3J		1297	124	377	1,862,217
W3MC		1421	110	337	1,842,534
K3OSX		1131	124	356	1,542,720
K3SA		932	116	373	1,306,119
W3GN		1006	112	343	1,267,630
W4YE		938	108	342	1,209,600
W3AZ		742	94	289	816,173
N3AM		765	77	238	692,370
W9LT	15	1369	35	115	601,800
W3GG	40	939	33	117	410,250
N4MM		628	114	308	758,334
N3JT		500	74	207	394,805
W4IF		328	66	182	234,856
W3CP	15	331	26	96	120,780
W4ZYT		154	54	92	61,612
W3TMZ	40	148	29	95	51,088
W8LRL	160	173	23	73	43,680
K4UX		###		(107)	25,894
K4VV	20	78	16	32	10,608

SINGLE OP LOW POWER - UNASSISTED

N1WR		967	109	344	1,257,258
W3UJ		864	98	320	1,080,948
K1EFI		657	91	307	731,922
W3DAD		575	71	242	519,267
K7CMZ		546	87	246	497,169
N3TG		438	77	213	359,020
N4MO	15	835	34	112	353,320
N3UN		359	82	203	281,010
AA4KD		346	63	175	223,958
N3UMA		234	66	156	140,526
W3CP	15	331	26	96	120,780
K7GM		188	47	103	77,850
W3KN		165	46	117	75,469
W4HM	10	190	23	68	47,957
N4GU		131	34	81	44,045
N4EL		133	48	90	42,642
K4EP		61	19	41	10,200
R3/K3NA		1	1	1	6

SINGLE OP QRP - UNASSISTED

W3ZZ		707	101	276	746,837
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SINGLE OP ASSISTED

N3RR		1380	160	498	2,559,620
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K3KO	1400	135	416	2,208,408
K3SV	1297	114	434	2,056,644
N4ZJ	1225	125	423	1,929,508
W3HVQ	1099	123	359	1,508,660
K3KY	1046	126	389	1,543,970
K4PB	721	126	350	971,040
N3II	698	118	351	925,806
NT4D	645	128	326	806,304
K3DI	622	113	335	771,456
K4MA	583	110	278	637,484
W4DR	160	115	21	25,481

MULTI - SINGLE

N4RV	2089	148	505	3,940,855	
W8ZA	1927	160	528	3,822,528	
N3OC	1844	142	476	3,263,040	
W4PRO	1089	127	418	1,654,620	
NY3M	497	100	297	552,227	
WR3L	15	706	35	125	325,120

MULTI - MULTI

A61AJ	13081	196	727	32,100,000
W3LPL	8513	203	775	23,850,000
W4MYA	5098	181	650	12,166,671
KH7R	####	###	###	1,939,784

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- - - - -
67 LOGS      CW TOTAL      152,921,156
- - - - -
75 LOGS      SSB TOTAL      76,389,485
- - - - -
142 LOGS     GRAND TOTAL    229,310,641
- - - - -

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LAST YEAR (SSB & CW)- tnx KE3Q!
 Frankford R C 360,666,652
 Yankee Clipper C C 296,323,389
 Potomac Valley R C 135,331,448
 North Coast Contest 71,646,476
 * * * * *

OPERATORS:

A61AJ	A61AJ KE3Q PA3GIP/T94S T93Y T97M W3UR
KH7R	ND3A plus 11 non-PVRC ops
N3OC	N3OC WR3Z
N4RV	N4RV N4RA KT4W
NY3M	NY3M Dave Long
W3LPL	K1HTV AA3KX ND3F W2GG K3RA
	K3MM K3LP K4ZW KD4D K3MQH W3LPL K2YWE
W4MYA	list of ops needed
W4MR	N4CW
W4PRO	W4PRO WB4DNL W4HIR
W8ZA	WD3A K8OQL N8II W8ZA

* one third of total score

PVRC ARRL 160m CONTEST RESULTS

(#6 1/7/99)

CALL	QSO	SEC	DX	TOTAL
** SINGLE OP HIGH POWER				
W9LT	1126	74	31	255,360*
W4MYA	1069	76	27	239,372
K8OQL	974	74	14	176,968*
K3SV	955	75	9	163,968
K3KO	685	72	8	111,520
W4YE	615	71	12	104,829
NY4A	550	66	13	90,139
K3MM	529	(79)		85,004
W1ECT	600	53	12	81,120
K3ZO	500	68	8	77,824
K2UOP	509	61	9	73,150
K4MA	512	54	13	71,288
W3TMZ	452	68	5	67,087
N4RV	375	70	11	63,666
K4PB	360	68	9	57,519
K4IQ	360	65	5	51,870
N3IQ	325	64	8	48,744*
W3ZZ	320	58	4	40,424
W3GN	311	55	2	35,796
W2YE	206	50	5	23,485
K4VV	146	42	3	13,545
K4IX	148	44	1	13,455
N3JT	153	(38)		11,628
N3HUV	135	(38)		10,260
K4UX	66	(41)		5,412

** SINGLE OP LOW POWER

N1WR	340	52	3	67,087
K3SA	373	56	0	41,776
W3CP	287	(59)		34,397
N4GU	330	(50)		33,300
W4HJ	263	49	2	27,132
K3SWZ	183	47	2	18,228
N3TG	194	40	1	16,031
K3MQH	123	36	0	8,856
W4SD	111	35	0	7,770
N4CW	100	(28)		5,600
WB4DNL	62	(26)		3,224
N3WK	57	(25)		2,850
NV3V	51	21	0	2,142

** SINGLE OP QRP POWER

WK3I	615	(75)		104,025
K3AN	105	(29)		6,090

** MULTIOP

NT4D	710	69	8	111,419
N3AM	554	61	3	71,488
W2GG	496	59	9	69,496
K3DI	374	67	6	55,918
WA4QDM	325	55	1	36,568
W4NF	272	(55)		30,085
N3NT	194	47	4	20,400
K1GG	142	52	3	16,115

NE3H 150 44 4 14,976

49 LOGS TOTAL 2,778,406

LAST YEAR - 1997

	logs	score
P V R C	45	2,616,709
FRANKFORD R C	52	2,522,411
YANKEE CLIPP C C	30	1,686,514
SOC OF MIDWEST C	15	1,744,696
MAD RIVER R C	21	2,269,609

Operators:

K3DI: K3DI packet
N3AM: N3AM packet
N3NT: N3NT packet
NE3H: NE3H packet
NT4D: NT4D packet
W2GG: W2GG packet
W4NF: W4NF packet
WA4QDM: WA4QDM packet

Guest ops:

N3IQ ND3F
W9LT operated from W8LRL's QTH
K8OQL operated from W9LT's QTH

PVRC ARRL 10m CONTEST RESULTS
(#7 1/7/99)

CALL	QSO'S	STS	DX	TOTAL
------	-------	-----	----	-------

SINGLE OP HIGH POWER - MIXED

W4MYA	2522	(271)		2,078,570
K3ZO	2368	116	152	1,961,224
N3OC	1500	105	136	1,176,080
N4AF	1527	94	120	1,099,104
K4MA	1624	109	122	1,085,700
K8OQL	1300	101	120	869,414*
N4GU	953	(190)		606,100
N3IQ	483	57	131	329,000*
W3ZZ	544	72	93	290,400
KE3ZR	831	71	63	233,696
W4HJ	208	(88)		72,512
W3HVQ	204	(94)		65,048
W4ZYT	169	36	40	51,376
K4VV	173	(68)		40,528

SINGLE OP LOW POWER - MIXED

N1WR	750	98	123	510,952
K2UOP	771	89	108	441,674
W3UJ	674	86	106	403,968
WK3I	649	(182)		400,400
K3MLA	500	82	77	206,064
K4EP	347	58	86	130,464
W3DQ	317	63	73	108,256

W4SD	249	60	56	101,848
W3MR	266	(105)		64,470
N3TG	96	24	27	19,584
N4TL	33	(19)		1,520

SINGLE OP QRP POWER - MIXED

SINGLE OP HIGH POWER - PHONE

N4MM	1533	61	100	493,626
NX9T	993	54	79	264,138
KB3AUG	532	49	68	124,488
W3OR	309	50	67	72,306
W3YD	300	40	50	54,000

SINGLE OP LOW POWER - PHONE

W2BZR	1166	53	69	284,504
K4TMC	525	45	61	111,300
4U1WB	346	38	46	58,128
W3LEO	100	(57)		11,400
N3QYE	131	24	16	10,480
W3JRY	75	(49)		7,350
N4DEN	42	16	14	2,520

SINGLE OP HIGH POWER - CW

N8II	1243	55	77	656,304
WU4G	693	55	60	320,620
W3GN	422	49	47	163,584
K3SA	250	31	43	74,000

SINGLE OP LOW POWER - CW

N4MO	720	49	64	326,344
W4YE	524	58	64	257,176
W3DAD	403	(98)		159,152
W3CP	355	(98)		140,336
W3CB	350	51	41	129,904
K1SE	325	40	50	117,720
N3UMA	212	33	44	69,864
K1EFI	136	23	38	38,184
K4QPL	108	22	13	15,120

SINGLE OP QRP POWER - CW

MULTI OP

WF3T	2073	109	165	1,776,260
8P9Z	3874	117	181	1,700,090
K4SO	2097	114	162	1,699,608
W4MR	1802	(257)		1,519,898
K3MM	1346	(256)		1,134,592
WR3L	1267	98	139	1,056,546
W3PP	1353	149	98	1,039,376
K3KO	918	88	133	700,128
K3VOA	1017	98	125	648,038
K3SV	800	(218)		565,928
NT4D	720	95	104	430,636
N3II	557	94	135	405,788
W2GG	565	(210)		369,180
W4PRO	882	50	87	242,764

NE3H	405	69	70	189,596
WA4QDM	357	(155)		182,590
K3DI	306	(130)		139,620
N3AM	403	(84)		135,408
N3NT	288	52	90	134,048
NY3M	310	(107)		133,108
KE3Q	90	(20)		8,616
K3IXD	79	26	19	7,110

72 LOGS TOTAL 30,529,428

LAST YEAR - 1997

P V R C		51	7,476,174
FLA CONTEST CL	17	6,071,732	
FRANKFORD R C	55	5,860,982	
FLA CONTEST GRP	13	4,365,312	

Multiop operators:

Single op plus packet unless indicated below.

8P9Z	K4FJ plus 1 nonPVRC
K3VOA	K3DNE K3IXD N3NT W3LEO W6HZW
K4SO	K4SO KT3Y K5OF
NY3M	NY3M Dave Long
W4MR	N4CW AA4NC
W4PRO	KO4MR KU4VA W4PRO
WF3T	WF3T K3MQH N3JDQ
WR3L	K3FT N3YHC WR3L

Guest op:

4U1WB	AJ3M
N3IQ	ND3F
K8OQL	operated from W9LT's QTH

CQWW DX PHONE (#10 12/22)

Add to W4MYA opr list: WA4QDM

Some comments from Bob Dannals, W2GG

I have received some single op scores for ops who were part of multiops during the same contest. In all cases, their portion of the multiop score is a larger number of points than their individual effort. I don't know how sponsoring organizations feel about this.

Quoted from the 5 Million Award rules: "Under no circumstances will anyone receive Award Points for more than one operation during a particular contest. If more than one Award Points score is generated to a single member, they will receive the single highest score of the group only."

GET THE MOST UP TO DATE INFORMATION (SCORES, ACTIVITIES) ON THE PVRC REFLECTOR! Subscribe today via email. (Capitals are Bob's. Instruction on how to subscribe to the reflector are given on the following reference page. -editor)

Scores continue to dribble in. I know that a lot of people do not have

internet access but for those who do, the reflector is a good way to get the latest info and submit those scores on time.

FREE COPY OF CT 6.26
by Dick Wilder, K3DI

There is a bit of odd space left in this issue so I'll use it for one of my pet projects; distributing free copies of CT 6.26 that K1EA has released as shareware. The objective is to legally distribute this to Hams in our 175 mile radius area and suck them in to contesting. CT 6.26 is a leap forward from a stick and uses the same command structure as CT9 programs. Great LEGAL learning tool!

The shareware version comes with obsolete 1991 information in a format different than used for CT9. So, I have built CTY and SEC files in the CT6 format using 1999 information.

I hope to wrap up (other than periodic update files) the task early this summer. The final distribution is expected to contain:

CT.DOC CT 4 documentation
CT.EXE CT 6.26
CT.HLP Help file
SS.SEC
CQWW.CTY
ARRL.CTY
WAE.CTY Not ready
MASTER.DAT Not ready
B2R.EXE, R2B.EXE + other utilities

Building the MASTER.DAT in the CT6 format offers an interesting opportunity to customize it for our area -- one based on CQWW, ARRL, WPX, and WAE and another based on the SS. I'm now looking for 4 to 6 multiop stations assist by sending me their dupes sheets for these contests. If you would like to help, please message me and we will find a suitable format for info transmission.

Eighteen area Hams have received copies of CT 6.26 and those updated files that are ready. Most of the 18 that are interested in CT 6.26 saw our announcement in the PVRC column in AUTOCALL. So far, all distribution has been completed as attachments to email.PVRC REFERENCE PAGE. Please send corrections to the editor. 1/20/99 changes are underscored.

PVRC Officers

President	K3MM	Tyler Stewart
301-414-5444		
Vice President	N3OC	Brian McGinness
301-652-6768		
Secretary	KE3Q	Rich Boyd
301-464-8014		
Treasurer	WR3L	Dave Baugher
410-DX1-WR3L		
Historian	K3SA	Steve Affens
301-774-0558		
Membership Sec	W2GG	Bob Dannals
410-472-2004		

PVRC Charter Members:

W3GRF (SK), W4AAV (SK), W4KFC (SK), N0FFZ (SK), W4LUE, W7YS, VP2VI (W0DX), W3IKN, W4KFT.

PacketCluster Contest/DX System (MHz):

W3LPL	Glenwood MD	145.590	441.250
KE3Q	Bowie MD	145.570	445.375
N3RR	Rockville MD	145.510	441.325
N4OHE	Mt.Weather VA	145.710	440.925
K3MQH	S Mountain PA	145.630	
WR3L	Baltimore MD	145.610	440.950
N4SR	Woodbridge VA	145.630	*
K4FJ	Mt. Vernon VA	145.770	*
KE3QZ	Hollywood MD	145.690	*
K3SKE	Frederick MD	144.930	

This system is sponsored by the Potomac Valley DX Spotting Network except "*" are independently funded by each SYSOP.

PVRC on Internet.

PVRC web site by K3SA:

<http://www.pvrc.org>

PVRC/NC web site by KS4XG

<http://www.pagesz.net/~pvrcnc>

PVRC reflector: (editor KS4XG)

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Text: SUBSCRIBE PVRC

*Members only. If your call is not within your URL, then send msg to [\[email protected\]](#).

PVRC dues and ARRL renewals: The annual dues are by donation - hopefully at least \$10. Club gets a cut from ARRL renewals sent via PVRC. Both dues and renewal checks should be made to PVRC and sent to Dave Baugher, WR3L, 615 Rockway Beach Av, Baltimore, MD 21221. Thank you.

Newsletter & Autocall column Editor: Dick Wilder, K3DI, 913 Shore Acres Rd, Arnold, MD 21012-1724. Voice 410-757-6706, FAX/modem 410-757-6720, Dxcluster packet, and [\[email protected\]](#). Deadlines are the 20th of the prior month.

CENTRAL: The Central Meeting is always the second Monday (except June, July, and August) at 7:30 pm. The central meeting generally alternates between MD and VA locations. A pre-meeting dinner is usually held between 5:00 and 6:30 pm. Check via 147- repeater.

VA LOCATION: The Patrick Henry (Public) Library, Route 123, Vienna, VA. Pre-meeting dinner at Outback, Old Branch Ave.

MD LOCATION: Church of the Nativity (Episcopal), Route 5, Temple Hills, MD. Pre-meeting dinner at Topolino's.

NORTHWEST: Greg Altig 410-775-7313 [\[email protected\]](#). Meets at 7:30 pm on the third Tuesday every month at Tully's Grill, 1080 W. Patrick St, Frederick, MD. Same center as Shoppers Food Warehouse. Essentially includes WEST VIRGINIA area.

NORTH CAROLINA: Chair: Jim Stevens, K4MA, [\[email protected\]](#); Sec: Pete

Soper, KS4XG, [\[email protected\]](#), reflector editor, hm: 919-362-4635, wk: 919-481-6874. Activities: Jim Stevens, K4MA. POC is K4MA & KS4XG. Howie Hoyt, N4AF, [\[email protected\]](#) is PVRC reflector editor. PVRC/NC meets at 6:00 pm the first Thursday of every month at Ryan's Family Steakhouse at Crossroads in Cary.

TIDEWATER (VA) COLONY OF PVRC:

Don Lynch W4ZYT 757-486-0728 [\[email protected\]](#). Meetings are the 3rd or 4th Tuesday of every month in conjunction with the VA DXCC at C&M Cafeteria, Independence Blvd at the Giant Shopping Center. Take I-64 to 44/I-264 inter-change, go east on 44. Take Independence about 1.5 miles. C&M is on the left. Dinner at 7 and meeting at 8.

SOUTHWEST VA CHAPTER: Coordinator: John Mitchell, K4IQ, Catawba, VA 540-384-7377, [\[email protected\]](#). Monthly meetings alternate between Roanoke area locations

THE BWI REGIONAL/PVRC: Weekly breakfast Wed at 7:30 AM at Basil's Deli Port on ElkrIDGE Landing Rd 1/4 mile South of Winterson Road 410-850-4333. Director: Ike Lawton, W2EOS, 410-263-2830. Secretary: Howard Leake, W6AXX, 410-465-7008, [\[email protected\]](#).

OVER-THE-HILL BUNCH (Luncheon):

Rotating hosts announces meeting info. Ben Shaver, AA4XU, 703-534-4740; Andy Anderson, W3XE, 301-384-7771, [\[email protected\]](#), Holiday Inn, College Park MD; and Bill Leavitt, W3AZ, 301-292-5797, Ramada Inn, Oxon Hill

PENNSYLVANIA:

Steve Cutshall, K3TZV, [\[email protected\]](#), 717-763-0462.

RAPPAHANNOCK

Steve Bookout, NJ4F [\[email protected\]](#)

WOODBIDGE: Jack O'Mara W4NF, [\[email protected\]](#) 703-680-4106 and Cliff Deel W4CE, [\[email protected\]](#) 703-491-0841
CENTRAL VA: Bob Morris, W4MYA 804-457-9011 [\[email protected\]](#)

SOUTHERN MD: Chair: Barry Shapiro, WR3Z. (H) 301-862-2466 Usually meets at N1WR's. [\[email protected\]](#)

EASTERN-SHORE (DEL-MAR-VA): Dallas Carter, W3PP 302-875-0550 [\[email protected\]](#)

WEST (Shenandoah, etc): Chair vacant

NORTHEAST: WR3L, see info above

EAST (Annapolis): KE3Q, see info above

OTHER MEETINGS based on prior year(s):

Jun. W3LPL open house Sat before Field Day with joint FRC/PVRC meeting on alternate years. (1999, 2001, ...)
summer. When joint FRC/PVRC is at FRC, they announce the date.

Jul. PVRC/NC cook out
Jul. Open house, W4MYA, Goochland,
Aug. NCDXA/PVRC Fowlfest at W3YOZ
Aug. VHF++ meeting/workshop at ND3F
Sep. PVRC meeting at the FARfest Bowie
Sep. Open house, WR3L, Baltimore
Dec. Christmas dinner, DC area.

5 MILLION (CLUB COMPETITION) AWARD
Month and number of the full week end.

Jan 3	ARRL VHF Sweepstakes
Jan Last	CQWW 160m CW
Feb 3	ARRL DX CW
Feb Last	CQWW 160m SSB
Mar 1	ARRL DX SSB
Mar Last	CQWW WPX SSB
May Last	CQWW WPX CW
Oct Last	CQWW DX SSB
Nov 1	ARRL Sweepstakes CW
Nov 3	ARRL Sweepstakes SSB
Nov Last	CQWW DX CW
Dec 1	ARRL 160m Mixed
Dec 2	ARRL 10m Mixed

"Under no circumstances will anyone receive Award Points for more than one operation during a particular contest. If more than one Award Points score is generated to a single member, they will receive the single highest score of the group only."

Standings at <http://jctc.org/pvrc5m.htm>
Roster updates at:
<http://www.pvrc.org/pvrcmm98.htm>

A FREE COPY OF CT 6.26 with updated CTY and SEC files is available from K3DI.

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